



APPLICATION NO. 09/826,118

Wavelet Multi-Resolution Waveforms

INVENTION:

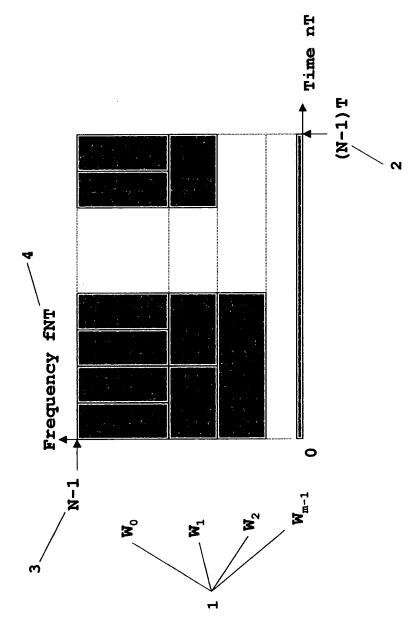
Urbain A. von der Embse

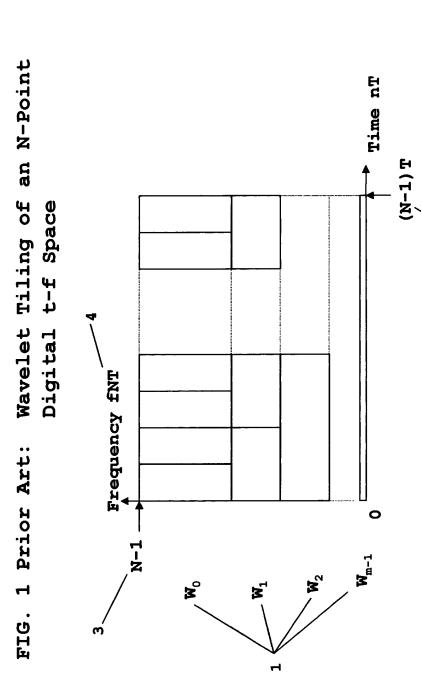
DRAWINGS AND PERFORMANCE DATA

INVENTOR:

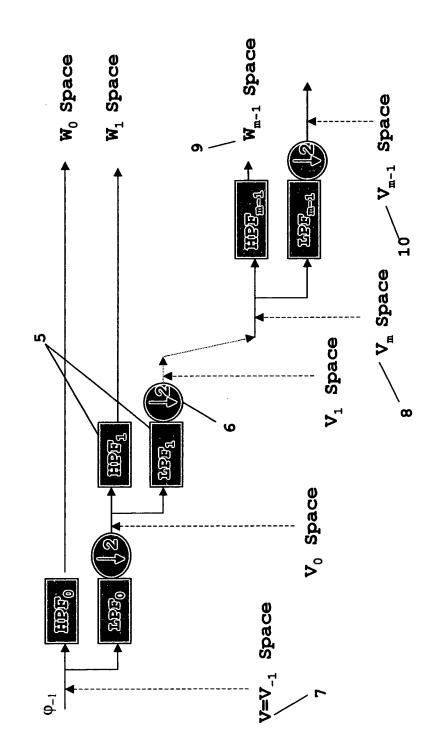


FIG. 1 Wavelet Tiling of an N-Point Digital t-f Space





Wavelet Iterated Filter Bank for Tiling t-f Space in FIG. FIG. 2



Prior Art: Wavelet Iterated Filter Bank for Tiling t-f Space in FIG. N FIG.

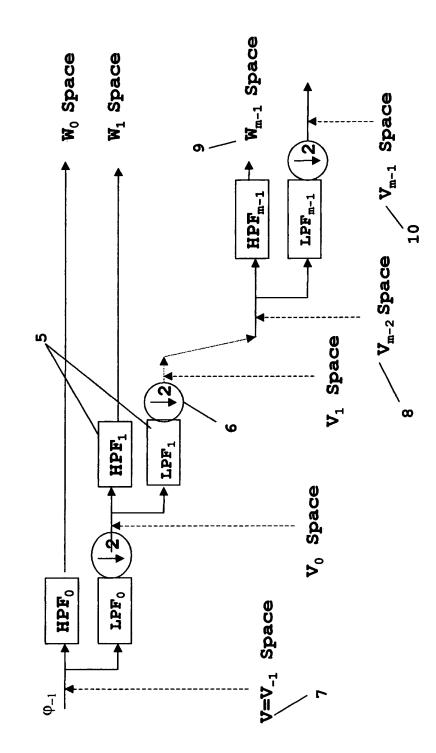


FIG. 3 PSD Requirements for Communications

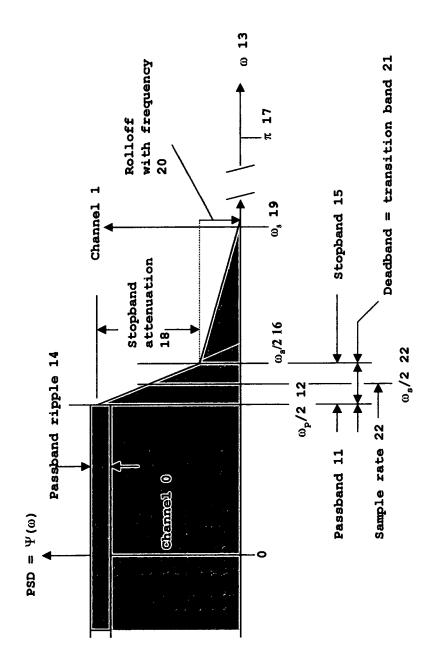


FIG. 3 PSD Requirements for Communications

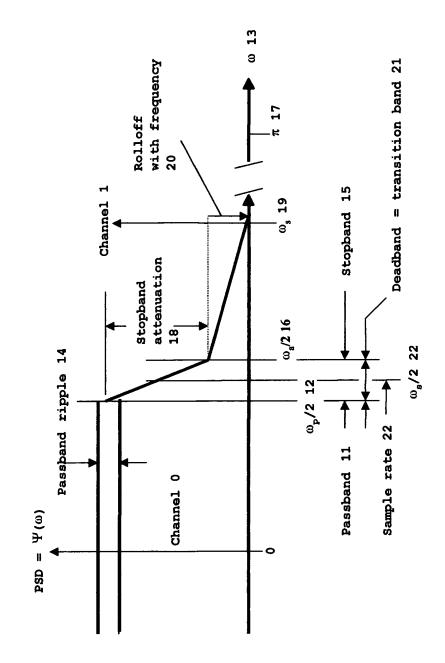


FIG. 4 LS Metrics and Cost Function

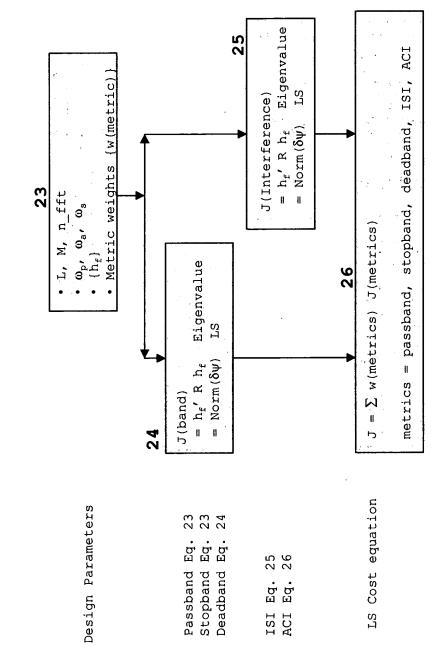
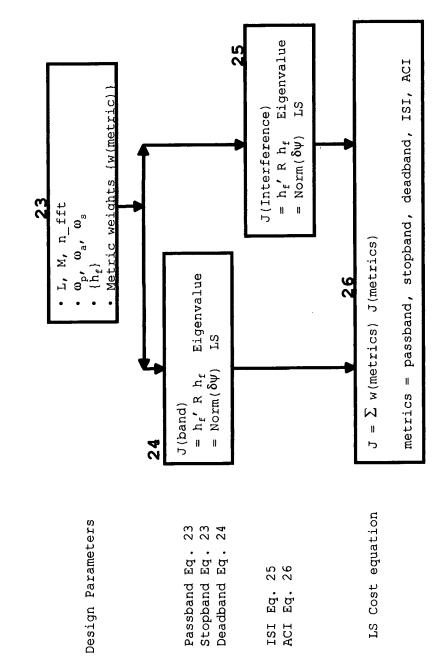
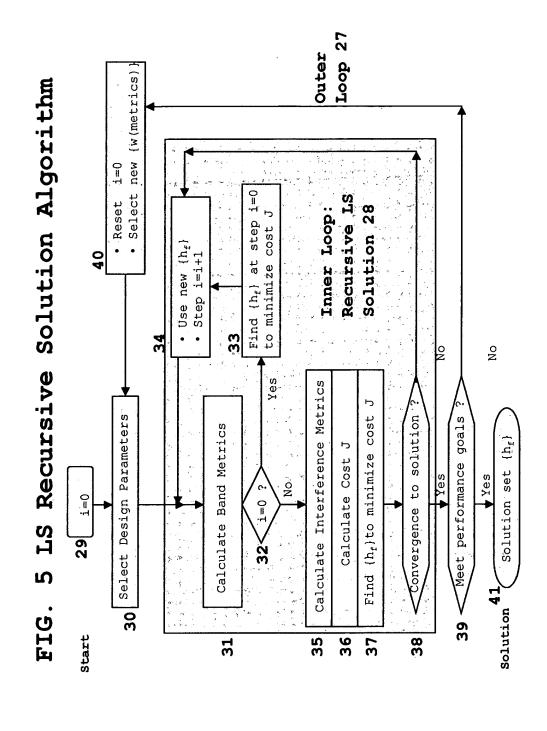
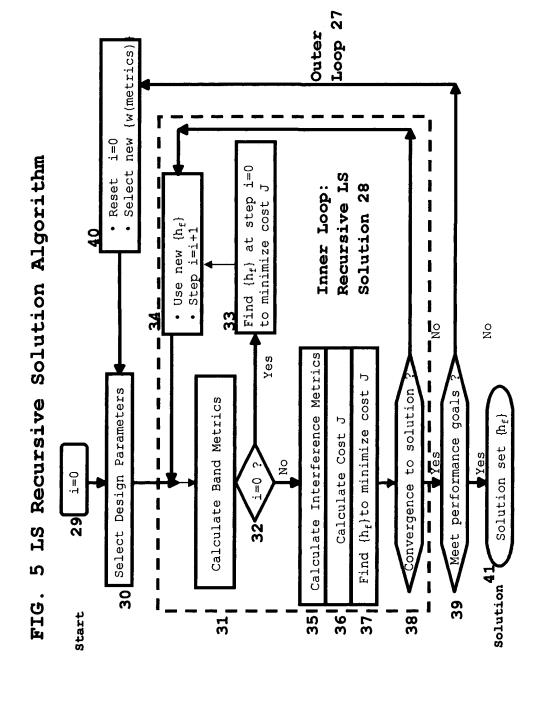


FIG. 4 LS Metrics and Cost Function

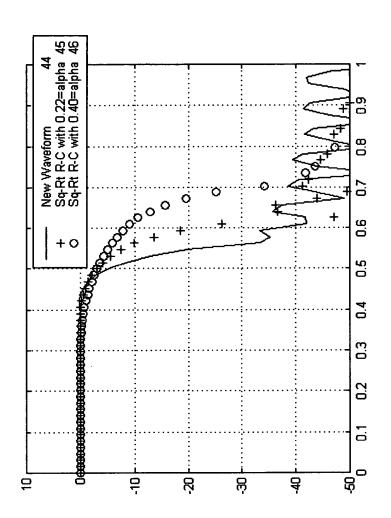






PSD for New Waveform and Square-Root Raised-Cosine 9 FIG.

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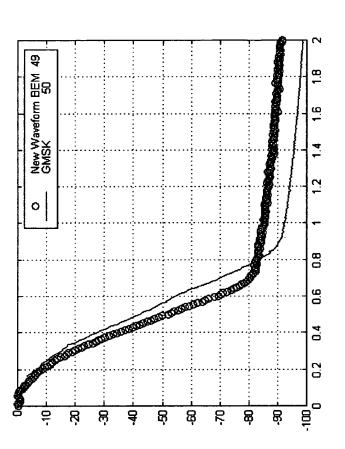


Power spectral density PSD,

Normalized frequency, symbol rate

FIG. 7 PSD for New Waveform BEM and GMSK

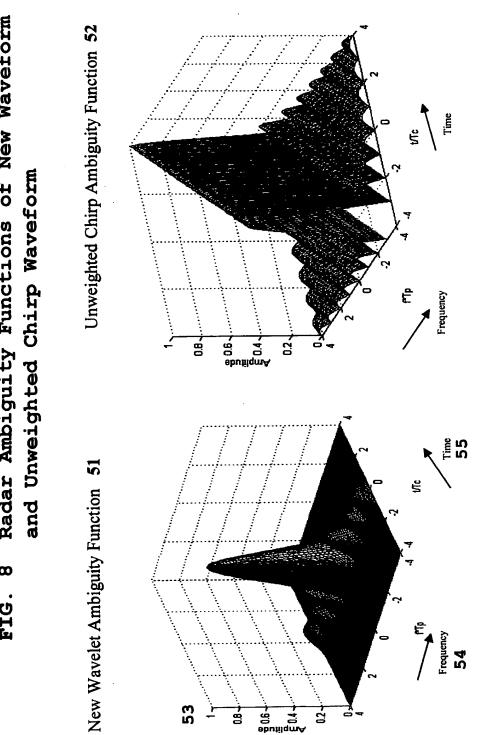
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Power spectral density PSD,

Normalized frequency, bit rate 48

Radar Ambiguity Functions of New Waveform ω FIG.



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